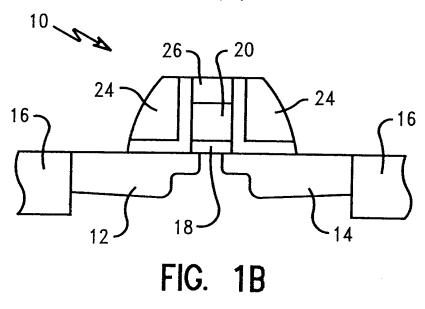
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Pre high temp processes:

22
24
24
16
16
18
FIG. 1A

Post high temp processes:



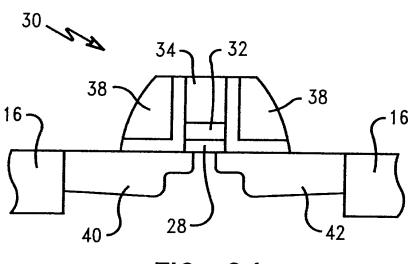


FIG. 2A

Pre high temp processes:

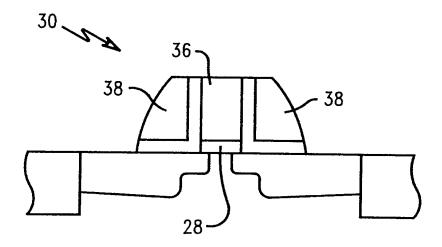
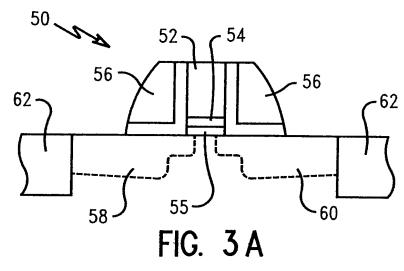
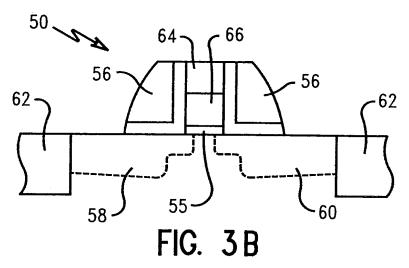


FIG. 2B
Post high temp processes:

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Pre high temp processes:



Post high temp processes:

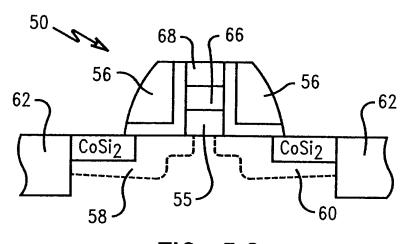
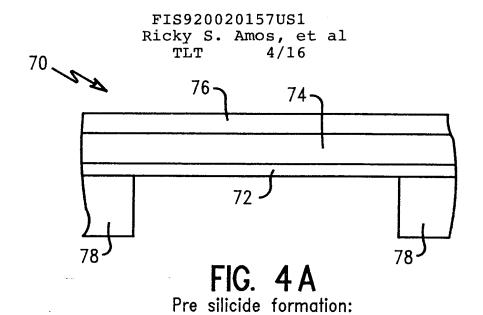
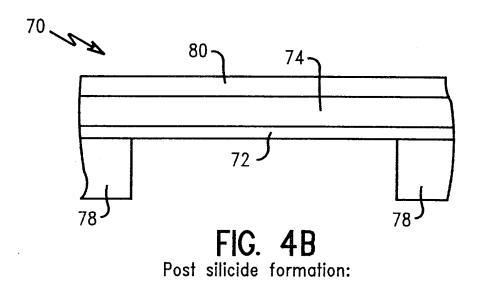


FIG. 3C

Post source/drain/gate silicide (assumed CoSi₂)





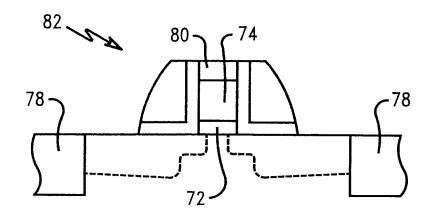
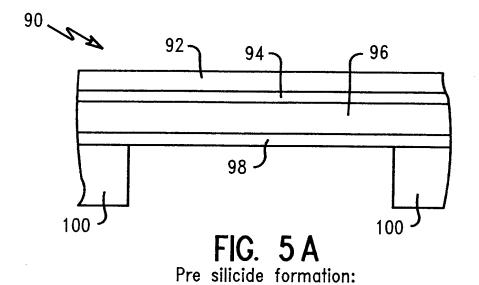
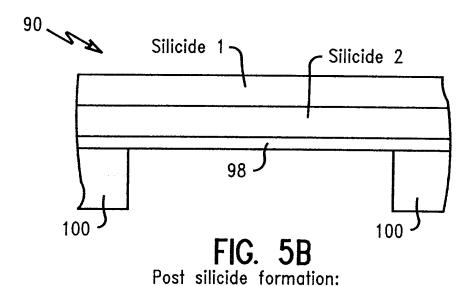


FIG. 4C
Post high temp processes:





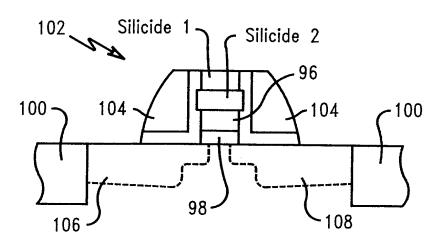
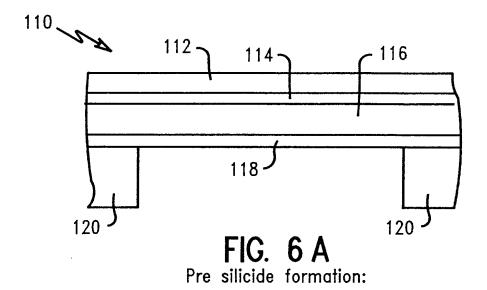
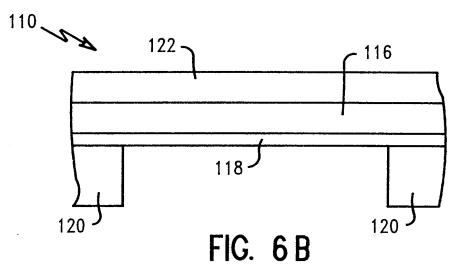


FIG. 5 C
Post high temp processes:





Post silicide formation:

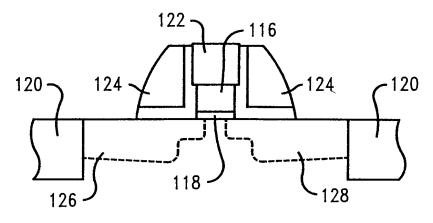


FIG. 6 C
Post high temp processes:

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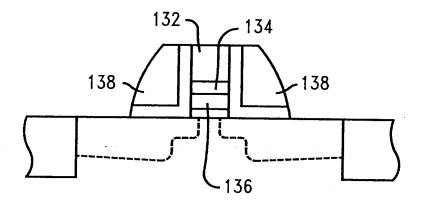


FIG. 7

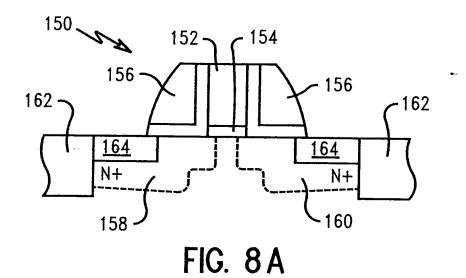


FIG. 8B

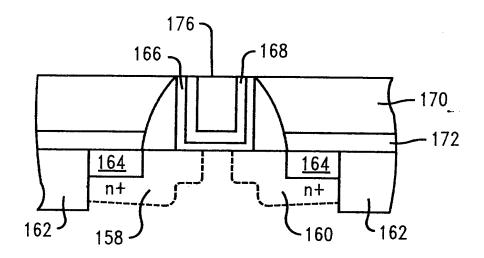


FIG. 8C

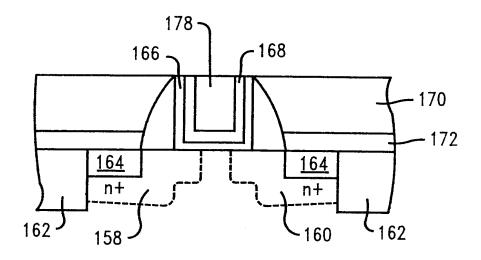


FIG. 8D

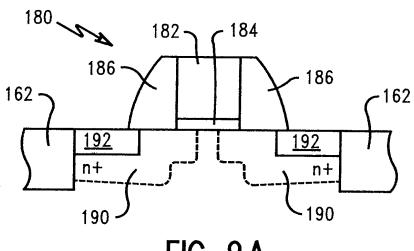


FIG. 9A

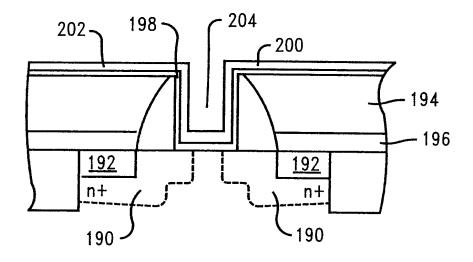


FIG. 9B

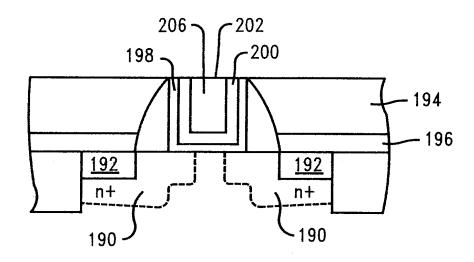


FIG. 9C

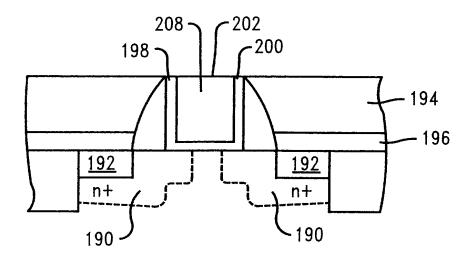
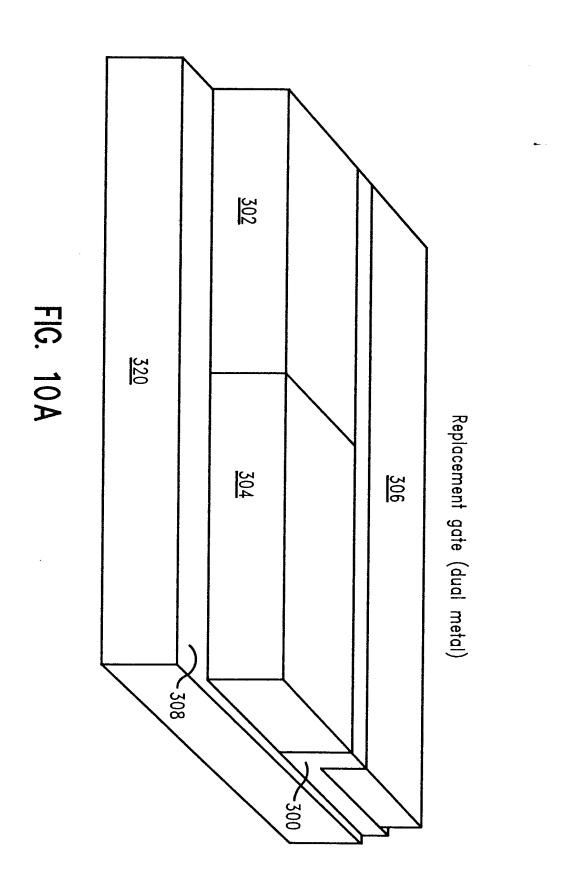
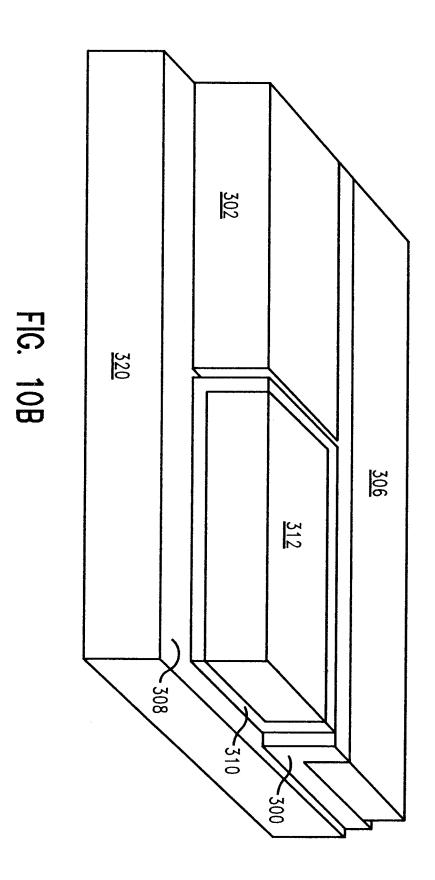
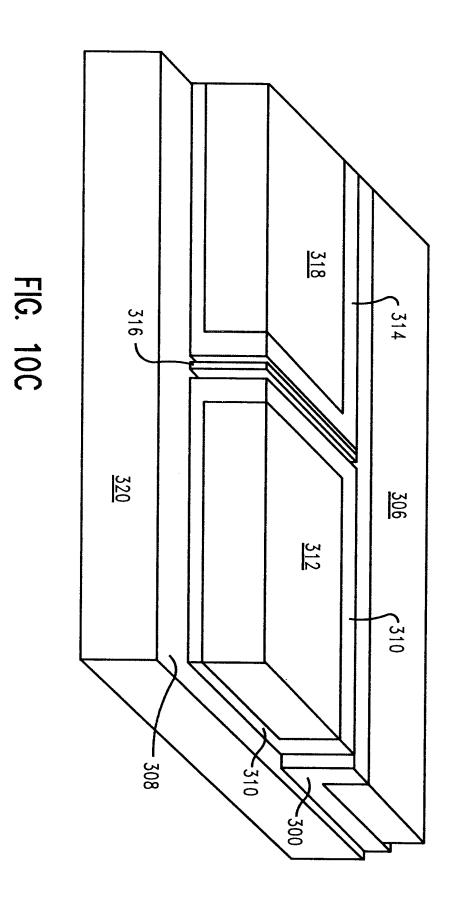


FIG. 9D

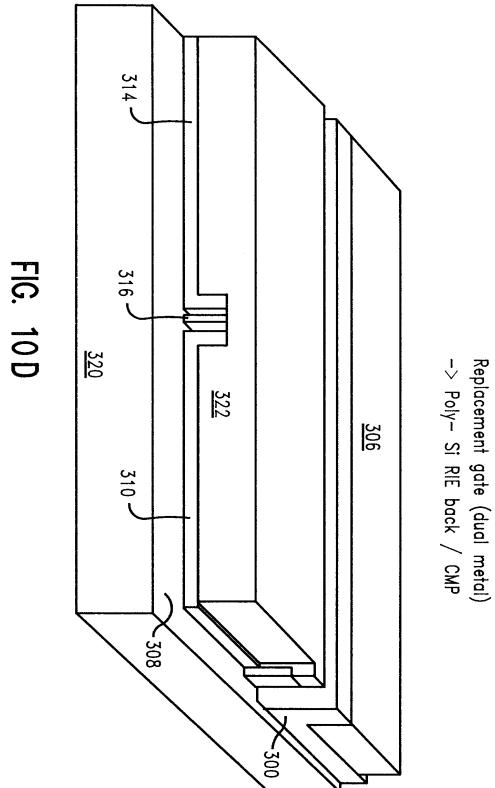




Replacement gate (dual metal)
-> Undoped Poly-Si deposition + CMP



Replacement gate (dual metal)
-> Undoped Poly deposition + CMP



Replacement gate (dual metal) -> Co-silicidation

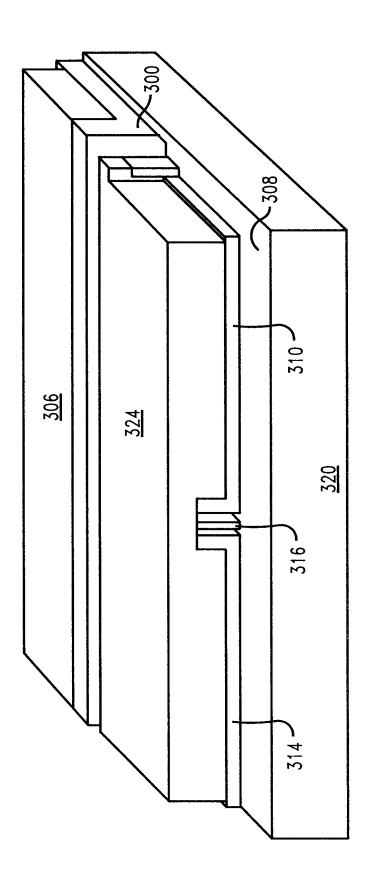


FIG. 10 E